

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT ( Not for submission under 37 CFR 1.99)</b>	Application Number		10708992	
	Filing Date		2004-04-06	
	First Named Inventor		Stephen Charles Porter	
	Art Unit		1746	
	Examiner Name		Kevin L. Lee	
	Attorney Docket Number		03-022.1	

U.S.PATENTS						<input type="button" value="Remove"/>
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
KL	1	6329091	B1	2001-12-11	JAMES BRIAN DAVID	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS						<input type="button" value="Remove"/>
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
KL	1	02003062268- 2003/0062268	A1	2003-04-03	KOSEK, JOHN ET AL	
KL	2	02003206495- 2003/0230495	A1	2003-12-18	ANDERSON EVERETT ET AL	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS							<input type="button" value="Remove"/>	
Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
KL	1	2001258390	JP	A	2001-09-25	MATSUSHITA SEIKO CO		<input type="checkbox"/>
KL	2	08306379	JP	A	1996-11-22	FUJI ELECTRIC CO LTD		<input type="checkbox"/>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Not for submission under 37 CFR 1.99)</i>	Application Number	10708992
	Filing Date	2004-04-06
	First Named Inventor	Stephen Charles Porter
	Art Unit	1746
	Examiner Name	Kevin L. Lee
	Attorney Docket Number	03-022.1

If you wish to add additional Foreign Patent Document citation information please click the Add button	<input type="button" value="Add"/>
<b>NON-PATENT LITERATURE DOCUMENTS</b>	
<input type="button" value="Remove"/>	

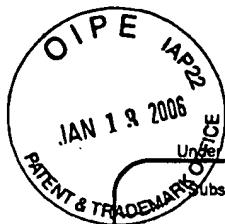
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1		<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button	<input type="button" value="Add"/>
<b>EXAMINER SIGNATURE</b>	

Examiner Signature		Date Considered	1/7/07
--------------------	--	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
to a collection of information unless it contains a valid OMB control number.

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

© 2010 by Pearson Education, Inc.

## **INFORMATION DISCLOSURE STATEMENT**

*(Use as many sheets as necessary)*

Sheet 1 of 2

INFORMATION DISCLOSURE STATEMENT <i>(Use as many sheets as necessary)</i>		<i>Complete if Known</i>	
		Application Number	10/708,992
		Filing Date	April 6, 2004
		First Named Inventor	PORTER et al.
		Art Unit	1746
		Examiner Name	
Sheet	1	of	2
		Attorney Docket Number	

**U. S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

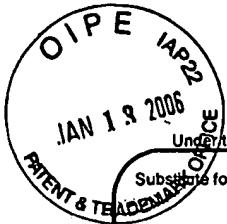
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>5</sup> (if known)				
KL	4	EP 1 398 603 A2	17-03-2004	AIR PRODUCTS		✓
KL	5	EP 1 146 277 A1	17-10-2001	L'AIR LIQUIDE		✓
KL	6	EP 0 255 003 A2	03-03-1998	FUJITSU LIMITED		✓
KL	7	FR 2 841 890 A1	09-01-2004	L'AIR LIQUIDE		

Examiner Signature	Kewei Lee	Date Considered	11/7/07
-----------------------	-----------	--------------------	---------

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



~~Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.~~

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Do not send a collection of information unless it contains a valid OMB control number.

**Substitute for form 1449/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 2 of 2

Substitute for form 1449/PTO <i>Information Disclosure Statement by Applicant</i>		<b>Complete if Known</b>	
		<b>Application Number</b>	10/708,992
		<b>Filing Date</b>	April 6, 2004
		<b>First Named Inventor</b>	PORTER et al.
		<b>Art Unit</b>	1746
		<b>Examiner Name</b>	
<b>Sheet</b>	2	<b>of</b>	2
		<b>Attorney Docket Number</b>	
		03-022.1	

## NON-PATENT LITERATURE DOCUMENTS

Examiner Signature	Karen Lee	Date Considered	1/7/07
-----------------------	-----------	--------------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.**

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:  
**Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1 of 1

## Complete if Known

Application Number	10/708,992
Filing Date	04/06/2004
First Named Inventor	Porter et al.
Art Unit	1746
Examiner Name	

Attorney Docket Number 03-022.1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Number-Kind Code <sup>2</sup> (if known)					
1	US-	2004/0009380-A1	01/15/2004	Pearson	
2	US-	6555989-B1	04/29/2003	Pearson	
3	US-	6184503-B1	02/06/2001	Jungreis	
4	US-	4778579	10/18/1988	Levy et al.	
5	US-	4883724	11/28/1989	Yamamoto	
6	US-	5360679	11/01/1994	Buswell et al.	
7	US-	5401589	03/28/1995	Palmer et al.	
8	US-	6134124	10/17/2002	Jungreis et al.	
9	US-	5376470	12/27/1994	Spreuse	
10	US-	5506066	04/09/1996	Spreuse	
11	US-	4100051	11/07/1978	Kilby et al.	
12	US-	4341607	07/27/1982	Tison	
13	US-	6450234	10/01/2002	Kagatani	
14	US-	6611068	11/26/2003	Craty	
15	US-	6628011	09/30/2003	Droppe et al.	
16	US-	2003/0113595	06/19/2003	Jungreis	
	US-				
	US-				
	US-				

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)					
KL	17	WO-03/098730-A2	11-27-2003	Pearson	<input checked="" type="checkbox"/>
KL	18	WO-02/10877-A2	02-07-2002	Colborn	<input checked="" type="checkbox"/>

Examiner Signature	<i>Kevin Lee</i>	Date Considered	1/7/07
--------------------	------------------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 1

**Complete if Known**

Application Number	10/708,992
Filing Date	04/06/2004
First Named Inventor	Porter et al.
Art Unit	1746
Examiner Name	

Attorney Docket Number 03-022.1

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code <sup>2</sup> (if known)		
KL	1	US- 2004/0009380-A1	01/15/2004	Pearson
	2	US- 6555989-B1	04/29/2003	Pearson
	3	US- 6184593-B1	02/06/2001	Jungreis
	4	US- 4778579	10/18/1988	Levy et al.
	5	US- 4883724	11/28/1989	Yamamoto
	6	US- 5360679	11/01/1994	Buswell et al.
	7	US- 5401589	03/28/1995	Palmer et al.
	8	US- 6134124	10/17/2002	Jungreis et al.
	9	US- 5376470	12/27/1994	Sprouse
	10	US- 5506066	04/09/1998	Sprouse
	11	US- 4100051	11/07/1978	Kilby et al.
	12	US- 4341607	07/27/1982	Tison
	13	US- 6459231	10/01/2002	Kagatani
	14	US- 6611068	11/26/2003	Craty
↓	15	US- 6628011	09/30/2003	Droppo et al.
KL	16	US- 2003/0113595	06/19/2003	Jungreis
		US-		
		US-		
		US-		

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)		

Examiner Signature	Kevin Lee	Date Considered	1/7/07
--------------------	-----------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.